

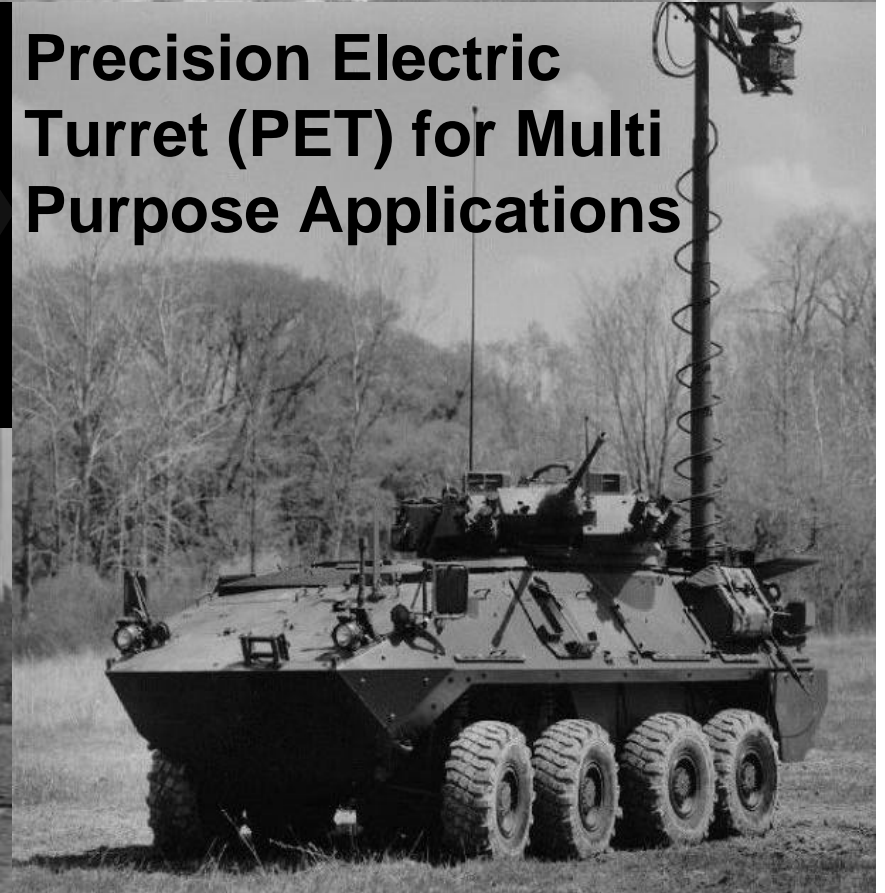


Horizontal Technology Insertion

Multiple Platforms-- Common Solutions



Precision Electric Turret (PET) for Multi Purpose Applications



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Precision Electric Turret (PET) for Multi Purpose Applications

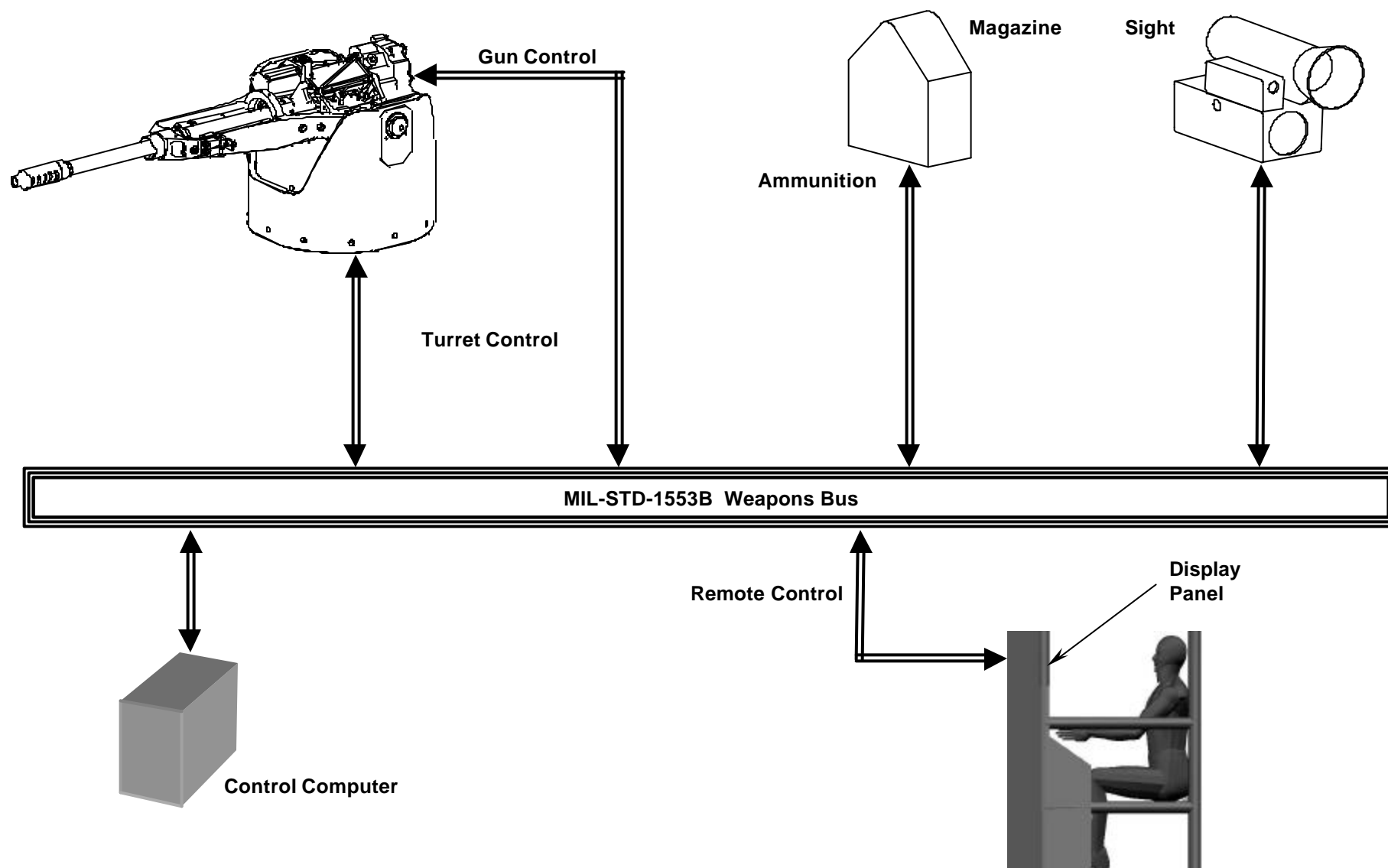
Abstract

Experience and design knowledge gained in systems integration and turret performance improvements on the Apache AH-64 programs have provided the technology basis for successful applications of Boeing's Remote Advanced Weapon System (RAWS). The Precision Electric Turret contributes key technology for insertion in a modular approach to a high performance, medium caliber gun system suitable for light airborne, naval and ground platforms.

REMOTE ADVANCED WEAPONS SYSTEM (RAWS) PERFORMANCE FEATURES

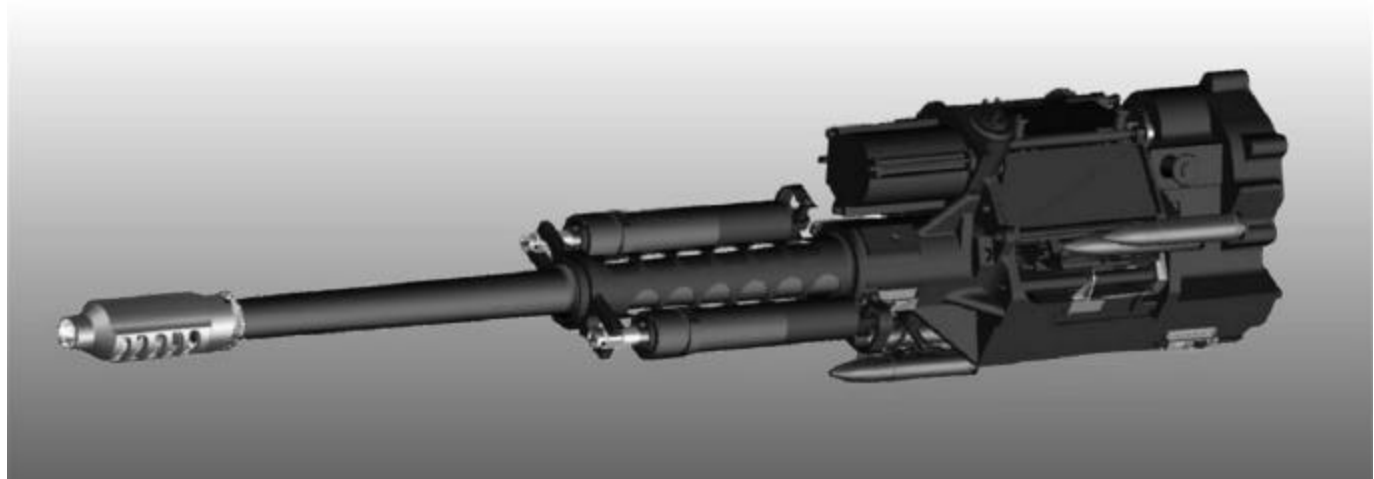
- **High-Performance Weapon System**
 - **Highly Effective Ammunition and Weapon**
 - **Light-Weight; Remotely Controlled Turreted System**
 - **Fast Response Suited for Manual or Computer Fire Control**
 - **Features Digital Control; Inertial Stabilization, and Precise Fault Isolation and Built-In Test.**
 - **Low Cost Modular Components; Fast Installation or Removal**
 - **Interchangeable Between Many Light Platforms**
 - **Minimal Intrusion Into Mounting Platform**

MODULAR SCHEMATIC



WEAPON & AMMUNITION

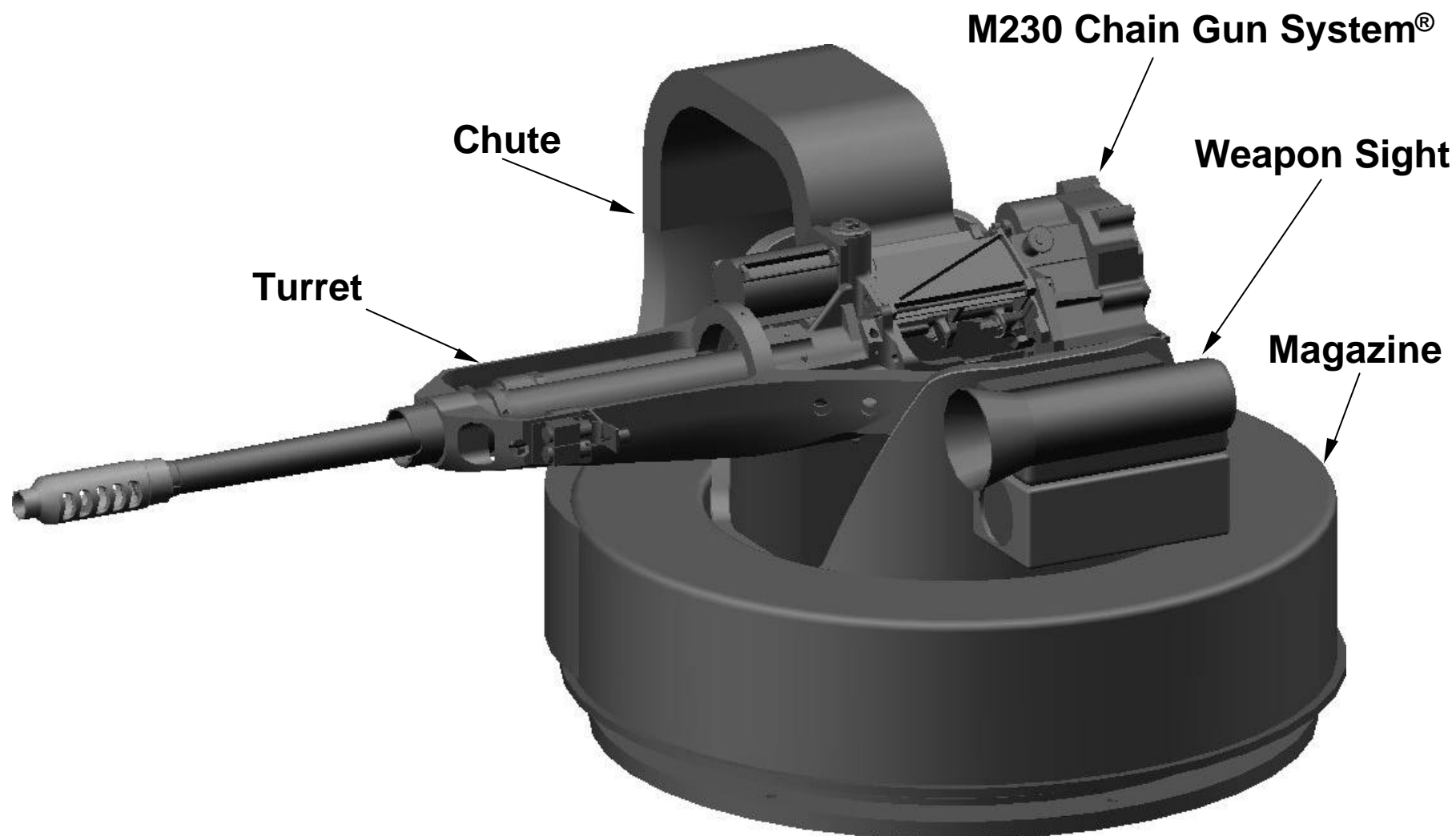
- **Based on Proven Apache Weapon System**
 - The M230 Chain Gun^â Weapon; Extremely Lethal, Reliable, and Combat Proven. Existing In US Army Inventory
 - Compatible with Fielded Ammunition (30mm M788 TP, M789 HEDP, ADEN, and DEFA Families)



PRECISION ELECTRIC TURRET (PET)

- **Turret Component Description**
 - The Turret Body is an Light-Weight Advanced Composite
 - Turret Mount, Drive Body and Gun Cradle are High strength Aluminum Providing a Light, Stable Interface with the Weapon
 - The Turreted Weapon is Inertial Stabilized by Robust Ring-Laser Fiber Optic Gyroscopes
 - The Turret Digital Controller Is Based on an Existing Motor Drive Unit That Was Developed Specifically for Turret Control
 - The Turret Drives use the latest Anti-Backlash Technology

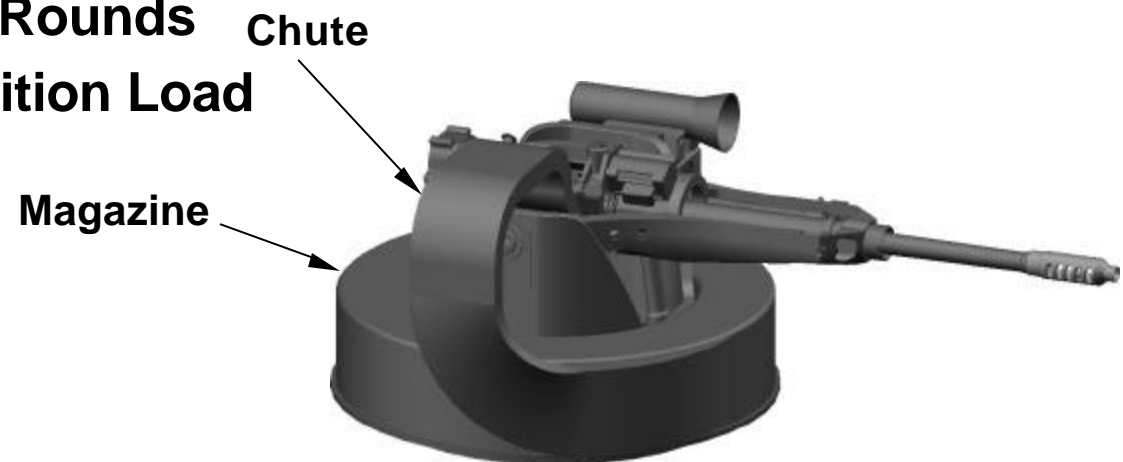
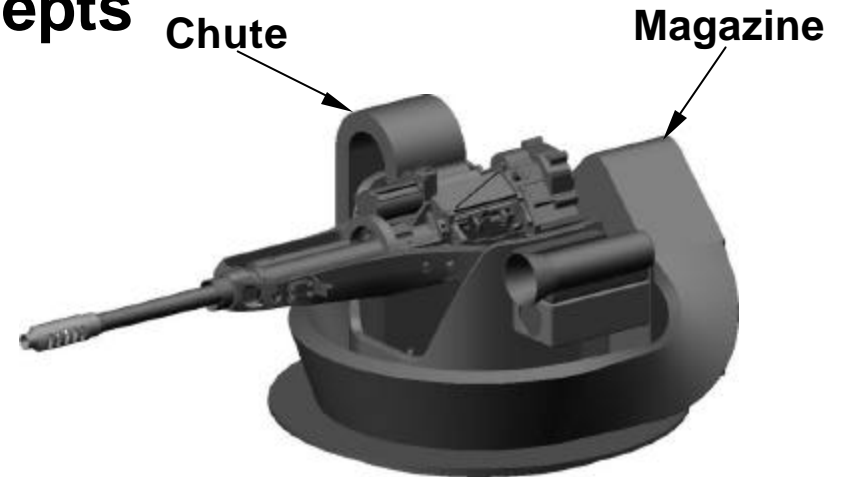
RAWS CONCEPT



AMUNITION HANDLING

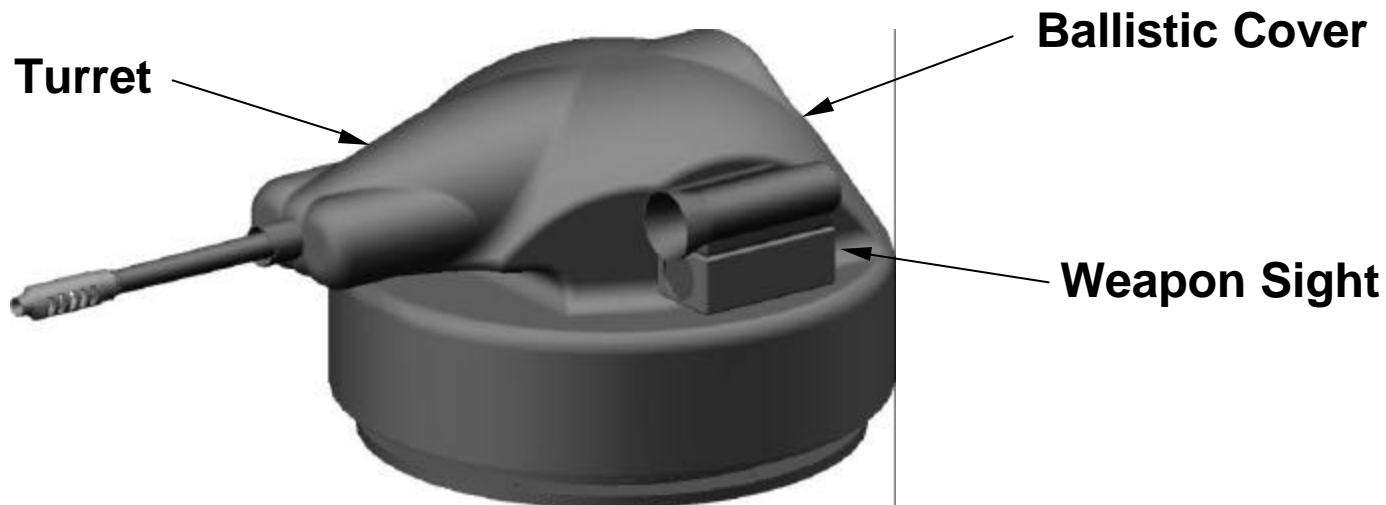
- **Ammunition Magazine Concepts**

- Already Designed And Tested
- Easy Access & Loading
- 180 Rounds
- Low Profile
- Approximately 200 Rounds
- Distributes Ammunition Load



DAMAGE TOLERANT

- **Ballistic Protection**
 - Flexible Kevlar, Light Weight and
 - Encompasses Vital Parts
 - Quick & Easy Removal Or Installation For Turret Maintenance Or Ammunition Reloading
 - Provides Level IV Protection (7.62mm)



EXTERNAL SIGHTS PERFORMANCE FEATURES

- **Weapon Sight Features**
 - **Modular Performance for Tailored Performance and Cost**
 - **Shock Mounted, Close Coupled With Turret Body For Added Stiffness**
 - **Provides Day/Night Capability and Zoom Optics Capability**
 - **Video Image Display, Helmet Mounted or Monitor**
 - **Monocle or Manual Tracking System Target System**
 - **Supports Auto-Tracker and Computer-Controlled Fire Control**
- **System Capable of Accepting Existing Sight**
 - **Independent Panoramic Sight**

MODULAR SIGHT

